

ABSTRACT OF THE DISCLOSURE

5 An equalizer includes  $n$  processing paths arranged  
to process blocks of data.  $N - 1$  data shifters are arranged  
so that each of the  $n - 1$  data shifters is in a  
corresponding one of the  $n$  processing paths and so that one  
of the  $n$  processing path has no data shifter.  $N$  finite  
filters are arranged so that each of the  $n$  finite filters is  
in a corresponding one of the  $n$  processing paths, and so  
that each of the  $n$  finite filters applies a corresponding  
set of finite filter coefficients to the blocks of data.  
Ghosts of the blocks of data are not eliminated as a result  
of the application of the sets of finite filter coefficients  
corresponding to the  $n$  finite filters, and  $n > 2$ . An adder  
is arranged to add outputs from the  $n$  processing paths such  
that the addition eliminates ghosts of the blocks of data.